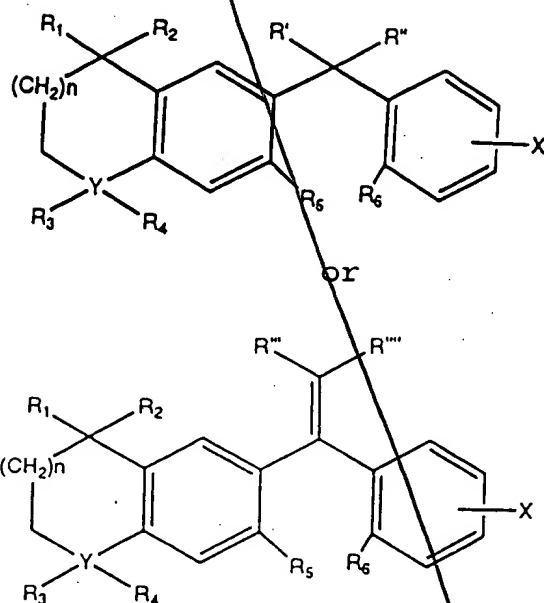


45. A compound having the formula:



wherein

R_1 and R_2 , each independently, represent hydrogen or lower alkyl having 1-4 carbon atoms;

Y represents C, O, S, or N;

R_3 represents hydrogen or lower alkyl having 1-4 carbon atoms where Y is C or N;

R_4 represents hydrogen or lower alkyl having 1-4 carbon atoms where Y is C, but R_4 does not exist if Y is N, and neither R_3 or R_4 exist if Y is S or O;

R' and R'' represent hydrogen or lower alkyl having 1-4 carbon atoms;

or R' or R'' taken together form an oxo (keto), methano, cyclopropyl or cycloalkyl group and wherein the cyclopropyl and

cycloalkyl groups can be substituted with lower alkyl having 1-4 carbons;

R' and R'' represent hydrogen or lower alkyl having 1-4 carbon atoms;

R₅ represents hydrogen or a lower alkyl having 1-4 carbons or OR₇, but R₅ cannot be hydrogen if R₆ is hydrogen and R' and R'' taken together form an oxo or a methano;

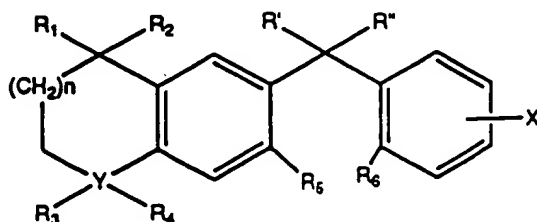
R₆ represents hydrogen;

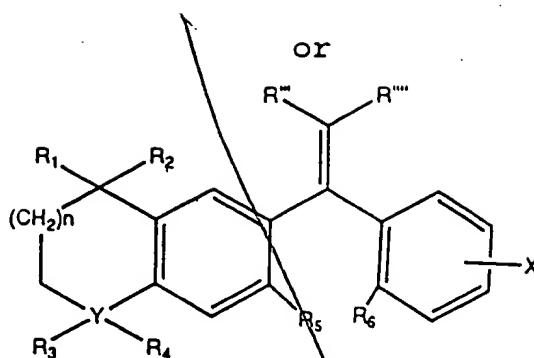
R₇ represents hydrogen or a lower alkyl having 1-6 carbons;

X is COOH and can originate from any C on the ring; and

n = 0-1.

46. A pharmaceutical composition for control of cellular processes regulated by retinoid compounds, Vitamin D, or thyroid hormone, comprising an effective regulating amount of a bicyclic aromatic compound, or a pharmaceutically acceptable ester, amide or salt thereof, in combination with a pharmaceutically acceptable carrier, wherein the bicyclic aromatic compound has the structural formula:





wherein:

Sub
en
cont'd
R₁ and R₂, each independently, represent hydrogen or lower alkyl having 1-4 carbon atoms;

Y represents C, O, S, or N;

R₃ represents hydrogen or lower alkyl having 1-4 carbon atoms where Y is C or N;

R₄ represents hydrogen or lower alkyl having 1-4 carbon atoms where Y is C, but R₄ does not exist if Y is N, and neither R₃ or R₄ exist if Y is S or O;

R' and R'' represent hydrogen or lower alkyl having 1-4 carbon atoms,

or R' or R'' taken together form an oxo (keto), methano, cyclopropyl or cycloalkyl group and wherein the cyclopropyl and cycloalkyl groups can be substituted with lower alkyl having 1-4 carbons;

R''' and R'''' represent hydrogen or lower alkyl having 1-4 carbon atoms;

R₅ represents hydrogen or a lower alkyl having 1-4 carbons or OR₇, but R₅ cannot be hydrogen if R₆ is hydrogen and R' and R'' taken together form an oxo or a methano;